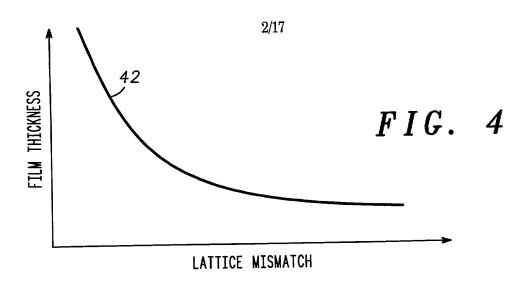


FIG. 3

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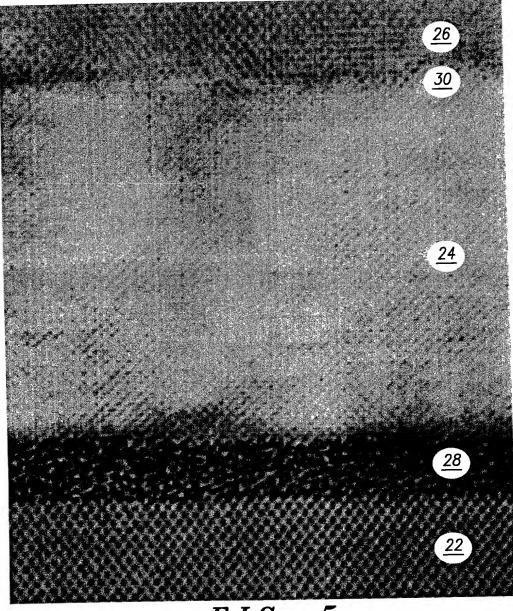
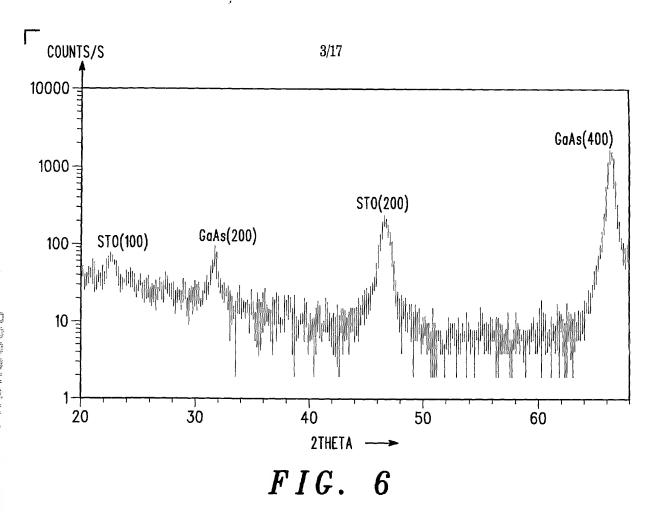


FIG. 5

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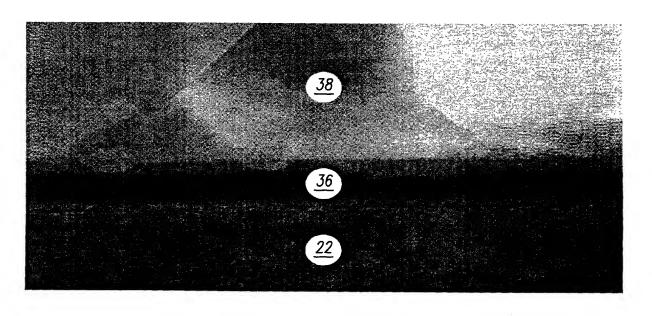


FIG. 7

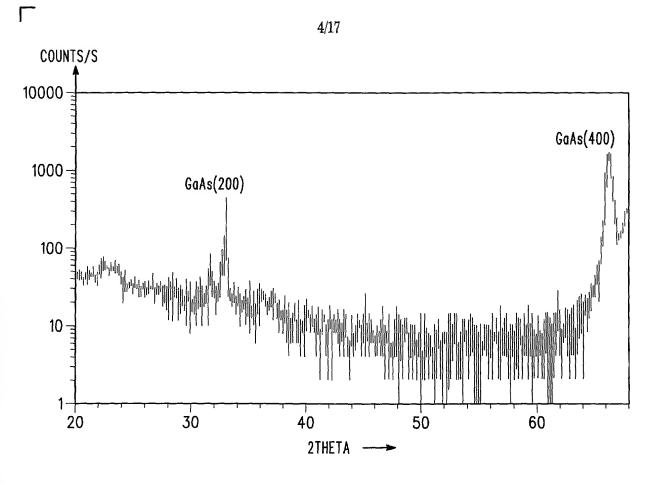


FIG. 8

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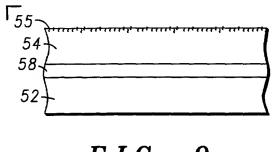


FIG. 9



FIG. 10

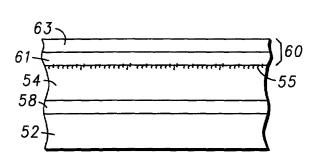


FIG. 11

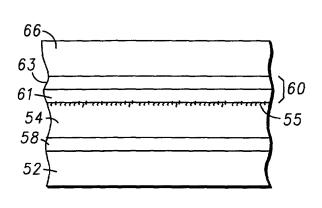
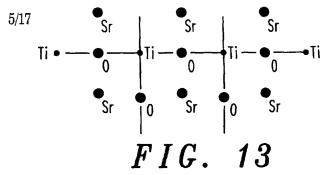
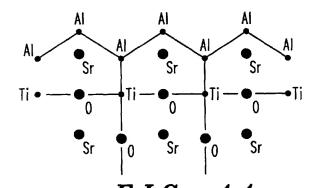
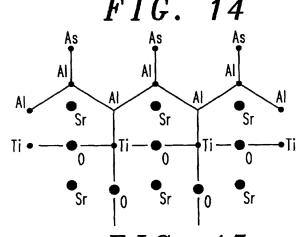


FIG. 12







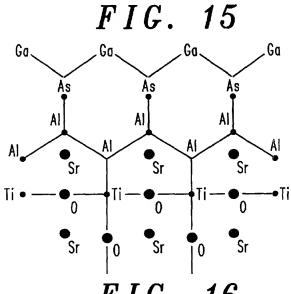


FIG. 16

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FIG. 17

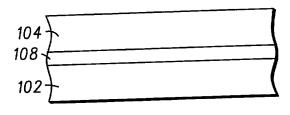


FIG. 21

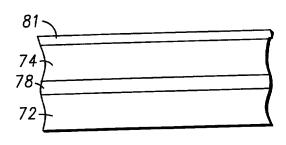


FIG. 18

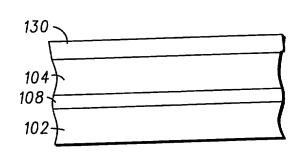


FIG. 22

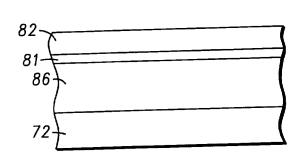


FIG. 19

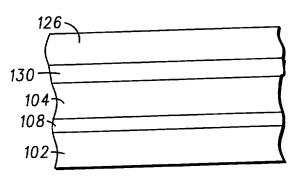


FIG. 23

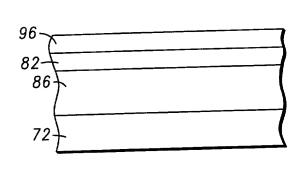
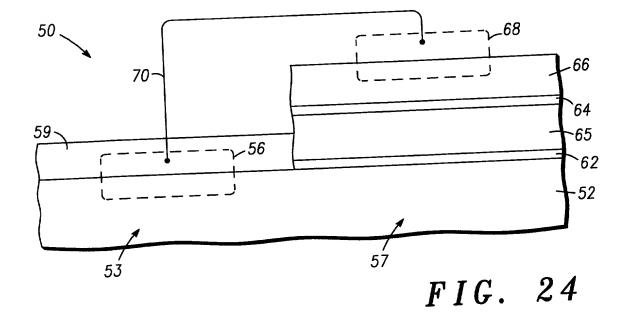


FIG. 20



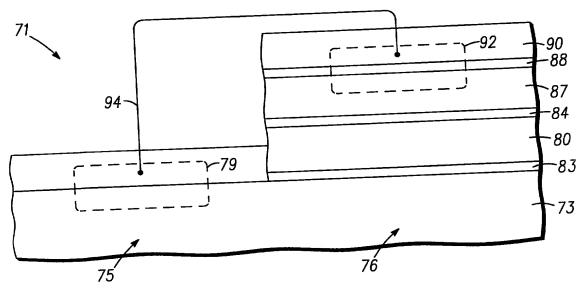
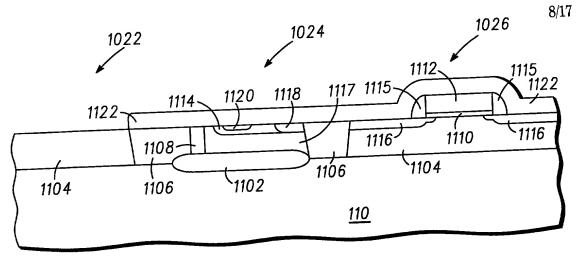
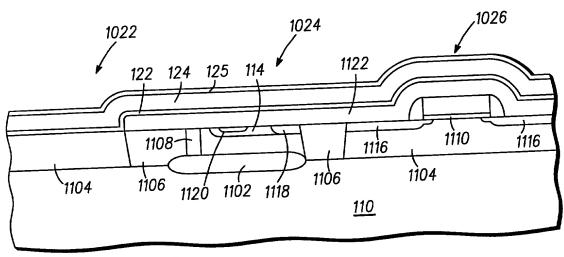


FIG. 25

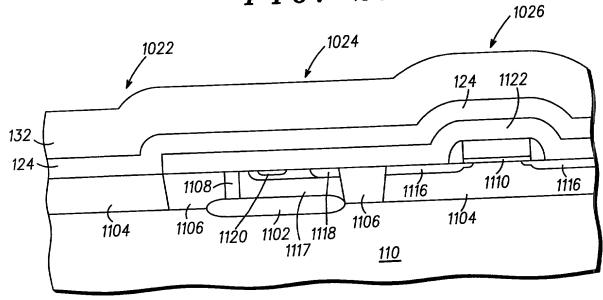
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 103 FIG. 26



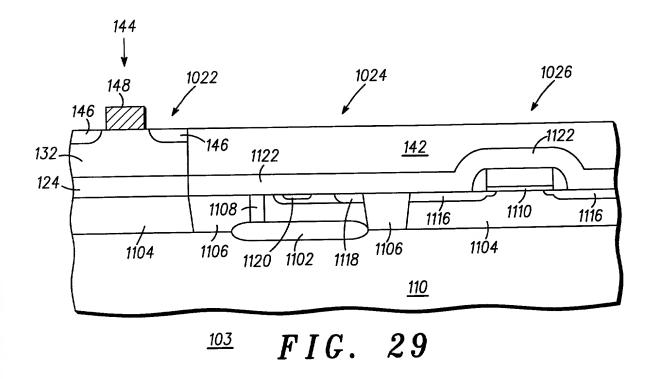
 103 FIG. 27

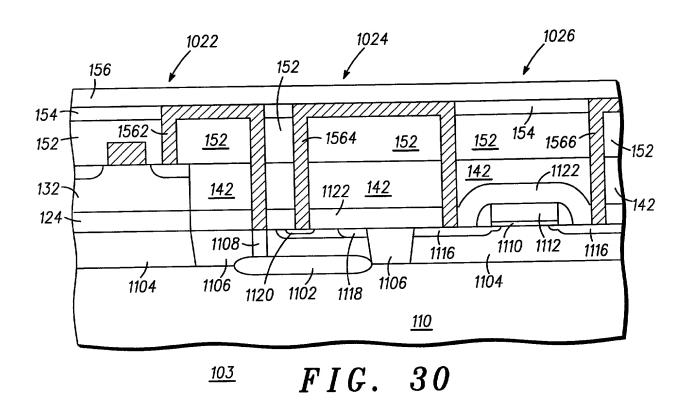


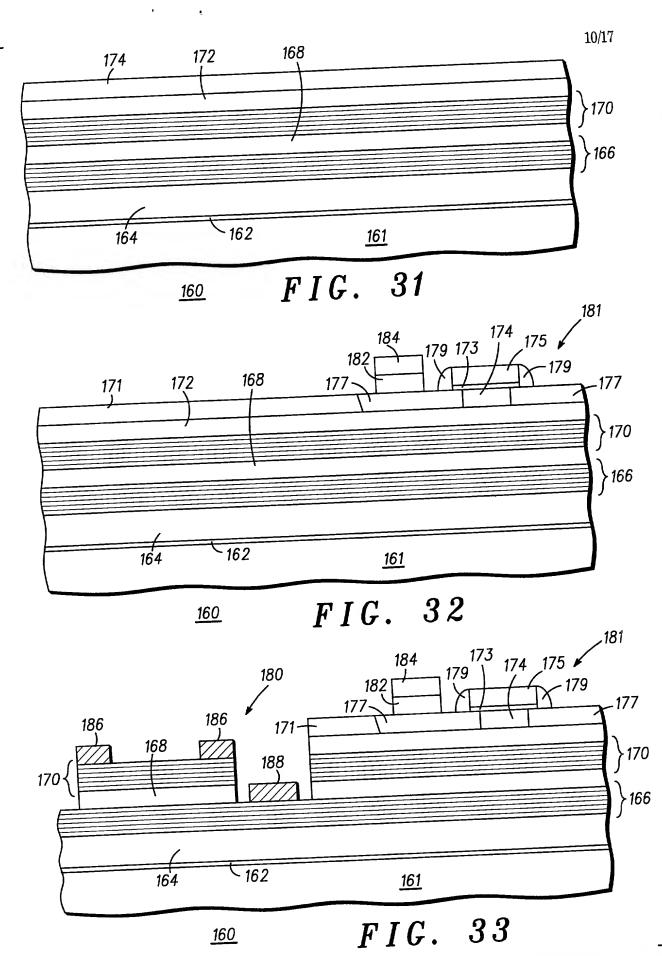
 103 FIG. 28

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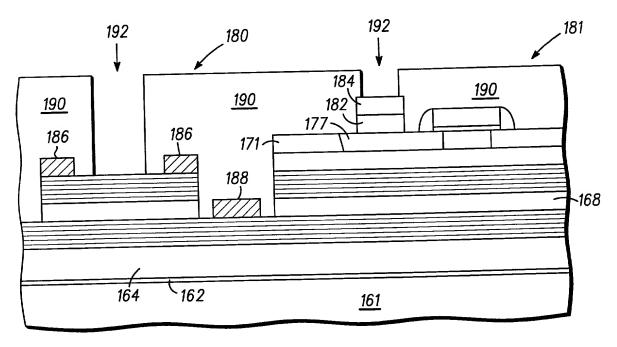


FIG. 34

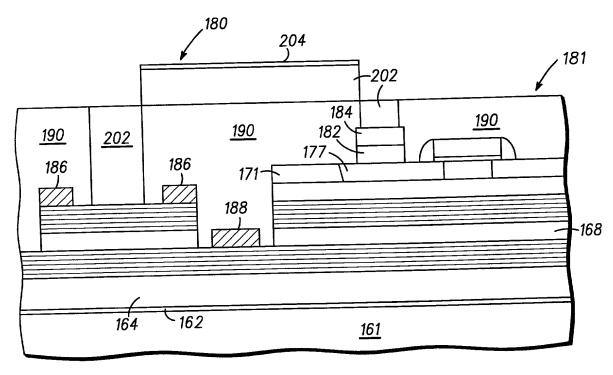


FIG. 35

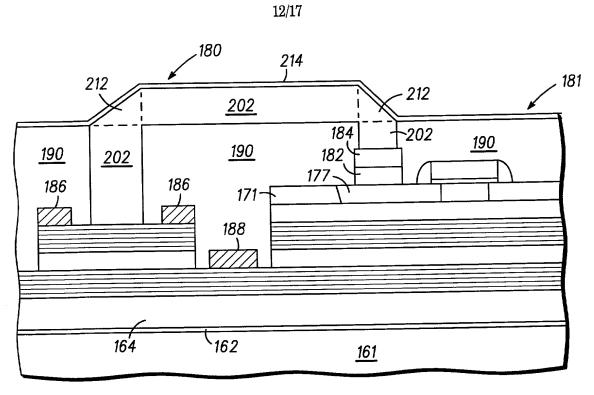


FIG. 36

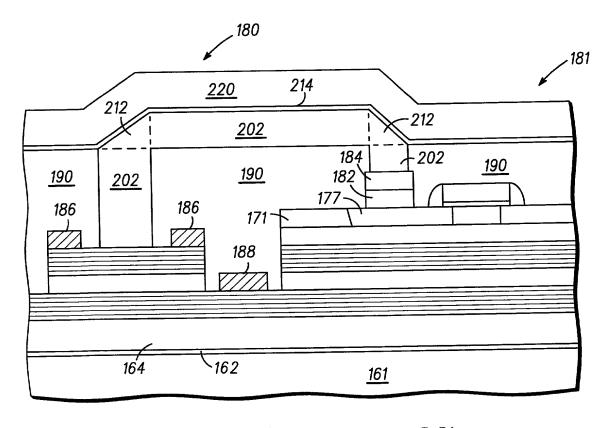


FIG. 37

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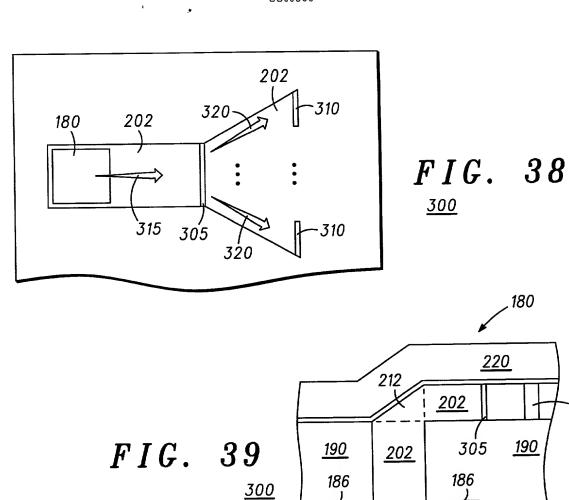
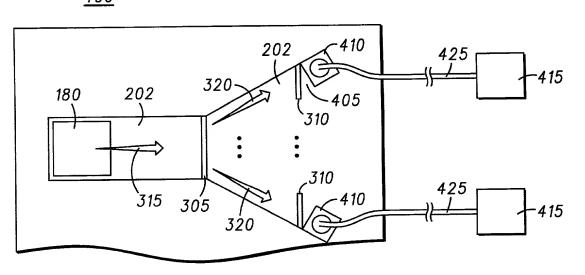


FIG. 40



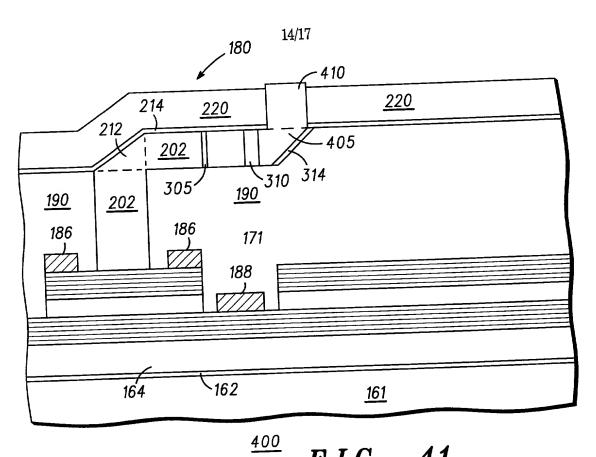


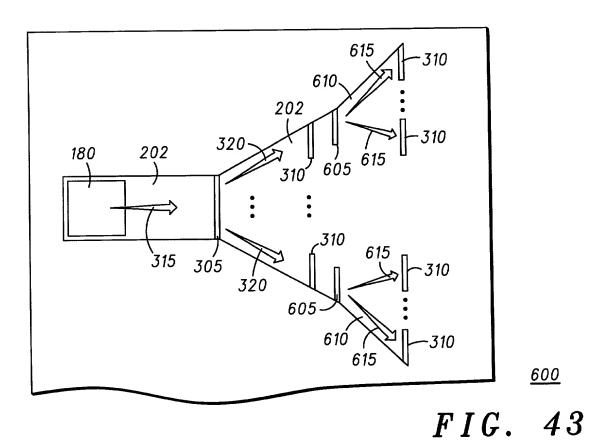
FIG. 41 180 /181 214 220 212 212 202 305 320₁₉₀ 310 405 184 -202 190 <u>190</u> 202 315 177 186 186 171-188 162 164 <u>161</u>

FIG. 42

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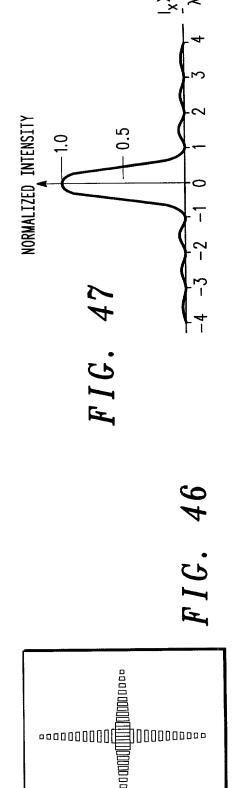


PROVIDE MONOCRYSTALLINE SUBSTRATE -700 DEPOSIT MONOCRYSTALLINE PEROVSKITE -705 OXIDE FILM OVER SUBSTRATE FORM AMORPHOUS OXIDE INTERFACE LAYER EPITAXIALLY FORMING MONOCRYSTALLINE -715 SEMICONDUCTOR LAYER -720 FORMING DIFFRACTION GRATING FORMING AT LEAST ONE OPTICAL SWITCH *-725* FIG. 44

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	TRANSMITTANCE FUNCTION	INTENSITY PATTERN
RECTANGULAR APERATURE	$t(X_1, Y_1) = RECI(\frac{X_1}{I_X}) rect(\frac{Y_1}{I_Y})$	$I(\chi_0, \gamma_0) = \frac{\binom{1}{x} 2^{\frac{1}{y}} 2}{2 2^2} SIN C^2(\frac{\binom{1}{x} \chi_0}{\lambda_z}) SIN C^2(\frac{\frac{1}{y} \gamma_0}{\lambda_z})$
CIRCULAR APERATURE	$t(r_1)=CIRC(\frac{r_1}{1/2})$	$I(r_0) = (\frac{kl^2}{8z})^2 \left[2 \frac{J_1 (klr_0/2z)}{klr_0/2z} \right]^2$
SINUSOIDAL AMPLITUDE GATING	$t(X,Y)=\left[\frac{1}{2}+\frac{m}{2}\cos(2\pi \int_{0}x)\right]$ Rect $\left(\frac{x}{l}\right)$ Rect $\left(\frac{y}{l}\right)$	$I(x_0, y_0) = \left[\frac{l^2}{2\lambda z}\right]^2 SIN \ C^2(\frac{ly_0}{\lambda z}) \{SIN \ C^2(\frac{lx_0}{\lambda z}) + \frac{m^2}{4} \ SIN \ C^2[\frac{l}{\lambda z} (x_0 + f_0 \lambda z)] + \frac{m^2}{4} \ SIN \ C^2[\frac{l}{\lambda z} (x_0 - f_0 \lambda z)] \}$
SINUSOIDAL PHASE GATING	$t(X_1,Y_1)=EXP[j] \frac{m}{2} SIN(2\pi \int_{0} x_1)]RECI(\frac{x_1}{T})RECI(\frac{y_1}{T})$	$ t(x_{1}, Y_{1}) = \text{EXP[} j \text{ $\frac{m}{2}$ SIN(2 \pi f_{0}x_{1})] RECI(\frac{x_{1}}{1}) RECI(\frac{y_{1}}{1}) } \left[I(x_{0}, y_{0}) = (\frac{l^{2}}{\lambda^{2}})^{2} \frac{\alpha}{q_{}\alpha} J_{2}(\frac{m}{2}) SIN(2 \frac{l}{\lambda^{2}} (x_{0} - q f_{0} \lambda z)) \right] SIN(2 \frac{l_{1}}{1}) $

FIG. 45



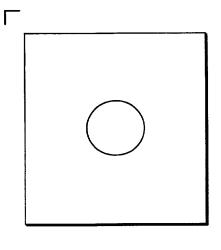


FIG. 48

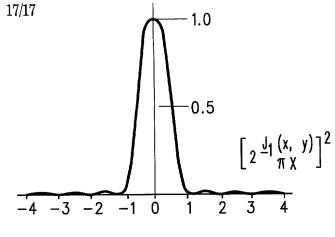
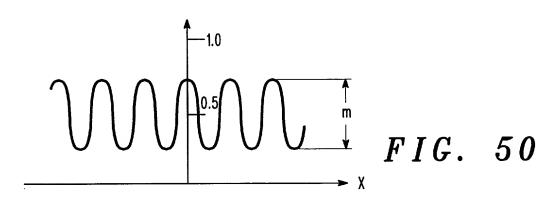
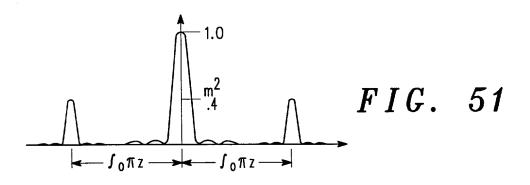
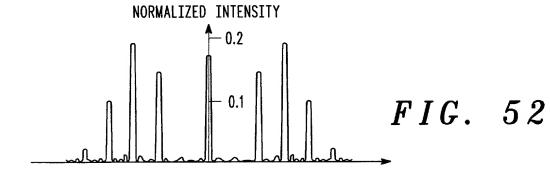


FIG. 49







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